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Job No.: CQCE/BBMP/MSV/W.No.14/2018-19 Date: 29.12.2018

TEST REPORT

CLIENT	:	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
AGENCY	:	**Sri. M S Venkatesh,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements & asphalting to main and cross roads at Soap Factory Layout, M.S.Ramaiah Layout, Siddeshwara Layout, Bhuvaneshwari Layout & Vishweshwaraiah Layout in Bagalagunte in Ward No:14 (5-Works) Package No. DZ 2017-18 (04) , BBMP, Bangalore.
NAME OF ROAD	:	Improvements and Asphalting to main roads od Siddeshwara layout in Bagalagunte in ward no.14.
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	395 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50 %	-

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ಬಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ

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Job No.: CQCE/BBMP/MSV/W.No.14/2018-19 Date : 29.12.2018

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **Sri. M S Venkatesh,** Contractor, Bangalore.

Name of Work : Improvements & asphalting to main and cross roads at Soap Factory Layout, M.S.Ramaiah Layout, Siddeshwara Layout, Bhuvaneshwari Layout & Vishweshwaraiah Layout in Bagalagunte in Ward No:14 (5-Works) Package No. DZ 2017-18 (04), BBMP, Bangalore.

Name of Road : Improvements and Asphalting to main roads od Siddeshwara layout in Bagalagunte in ward no.14.

Date of Testing : 29.12.2018

Material : Sand Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	87	8.70	8.70	91.3	90-100
2.36	126	12.60	21.30	78.7	75-100
1.18	162	16.20	37.50	62.5	55-90
600 Micron	325	32.50	70.00	30.0	35-59
300 Micron	169	16.90	86.90	13.1	8-30
150 Micron	85	8.50	95.40	4.6	0-10

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Job No.: CQCE/BBMP/MSV/W.No.14/2018-19 Date : 29.12.2018

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency : **Sri. M S Venkatesh,** Contractor, Bangalore.
Name of Work : Improvements & asphalting to main and cross roads at Soap Factory Layout, M.S.Ramaiah Layout, Siddeshwara Layout, Bhuvaneshwari Layout & Vishweshwaraiah Layout in Bagalagunte in Ward No:14 (5-Works) Package No. DZ 2017-18-(04), BBMP, Bangalore.
Name of Road : Improvements and Asphalting to main roads od Siddeshwara layout in Bagalagunte in ward no.14.

Date of Testing : 29.12.2018
Material : 40mm Aggregates

Total Wt. of Aggregates in gms 15000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	175	1.17	1.17	98.83	95-100
20	8426	56.17	57.34	42.66	30-70
10	3256	21.71	79.05	20.95	10-35
4.75	2756	18.37	97.42	2.58	0-5

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Job No.: CQCE/BBMP/MSV/W.No.14/2018-19 Date : 29.12.2018

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency : **Sri. M S Venkatesh,** Contractor, Bangalore.
Name of Work : Improvements & asphalting to main and cross roads at Soap Factory Layout, M.S.Ramaiah Layout, Siddeshwara Layout, Bhuvaneshwari Layout & Vishweshwaraiah Layout in Bagalagunte in Ward No:14 (5-Works) Package No. DZ 2017-18-(04), BBMP, Bangalore.
Name of Road : Improvements and Asphalting to main roads od Siddeshwara layout in Bagalagunte in ward no.14.
Date of Testing : 29.12.2018
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	165	3.3	3.3	96.7	95-100
10	2622	52.4	55.7	44.3	25-55
4.75	1756	35.1	90.9	9.1	0-10

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Job No.: CQCE/BBMP/MSV/W.No.14/2018-19 DATE : 29.12.2018

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **Sri. M S Venkatesh,** Contractor, Bangalore.

Name of the Work : Improvements & asphalting to main and cross roads at Soap Factory Layout, M.S.Ramaiah Layout, Siddeshwara Layout, Bhuvaneshwari Layout & Vishweshwaraiah Layout in Bagalagunte in Ward No:14 (5-Works) Package No. DZ 2017-18-(04), BBMP, Bangalore.

Name of Road : Improvements and Asphalting to main roads od Siddeshwara layout in Bagalagunte in ward no.14.

Date of Testing : 29.12.2018

Size of Blocks : 400mm x 200mm x 200mm

Cross Sectional Area : 40000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	28.5	302.1	3.78	Minimum required Compressive Strength of Individual Units 3.50 N/mm^2
2	Block 2	27.6	285.5	3.57	
3	Block 3	29.5	297.6	3.72	
4	Block 4	27.9	287.9	3.60	

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Job No.: CQCE/BBMP/MSV/W.No.14/2018-19 Date: 15.01.2019

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Contractor : **Sri. M S Venkatesh,** Contractor, Bangalore.
Name of the work : Improvements & asphalting to main and cross roads at Soap Factory Layout, M.S.Ramaiah Layout, Siddeshwara Layout, Bhuvaneshwari Layout & Vishweshwaraiah Layout in Bagalagunte in Ward No:14 (5-Works) Package No. DZ 2017-18-(04), BBMP, Bangalore.
Name of Road : Improvements and Asphalting to main roads od Siddeshwara layout in Bagalagunte in ward no.14.
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{15}
Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.01.2019	15.01.2019	8.125	285.6	12.69
2	08.01.2019	15.01.2019	8.137	297.5	13.22
3	08.01.2019	15.01.2019	8.115	305.5	13.58

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Job No.: CQCE/BBMP/MSV/W.No.14/2018-19 Date: 05.02.2019

TEST REPORT ON CONCRETE CUBES

Client	: **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Contractor	: **Sri. M S Venkatesh,** Contractor, Bangalore.
Name of the work	: Improvements & asphalting to main and cross roads at Soap Factory Layout, M.S.Ramaiah Layout, Siddeshwara Layout, Bhuvaneshwari Layout & Vishweshwaraiah Layout in Bagalagunte in Ward No:14 (5-Works) Package No. DZ 2017-18-(04), BBMP, Bangalore.
Name of Road	: Improvements and Asphalting to main roads od Siddeshwara layout in Bagalagunte in ward no.14.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.01.2019	05.02.2019	8.196	432.6	19.23
2	08.01.2019	05.02.2019	8.187	425.2	18.90
3	08.01.2019	05.02.2019	8.179	419.8	18.66

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Job No.: CQCE/BBMP/MSV/W.No.14/2018-19 Date: 10.02.2019

TEST REPORT ON CONCRETE CUBES

Client	: **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Contractor	: **Sri. M S Venkatesh,** Contractor, Bangalore.
Name of the work	: Improvements & asphalting to main and cross roads at Soap Factory Layout, M.S.Ramaiah Layout, Siddeshwara Layout, Bhuvaneshwari Layout & Vishweshwaraiah Layout in Bagalagunte in Ward No:14 (5-Works) Package No. DZ 2017-18-(04), BBMP, Bangalore.
Name of Road	: Improvements and Asphalting to main roads od Siddeshwara layout in Bagalagunte in ward no.14.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm²)
1	03.02.2019	10.02.2019	8.136	362.5	16.11
2	03.02.2019	10.02.2019	8.136	354.2	15.74
3	03.02.2019	10.02.2019	8.152	358.9	15.95

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Job No.: CQCE/BBMP/MSV/W.No.14/2018-19 Date: 10.02.2019

TEST REPORT ON CONCRETE CUBES

Client	: **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Contractor	: **Sri. M S Venkatesh,** Contractor, Bangalore.
Name of the work	: Improvements & asphalting to main and cross roads at Soap Factory Layout, M.S.Ramaiah Layout, Siddeshwara Layout, Bhuvaneshwari Layout & Vishweshwaraiah Layout in Bagalagunte in Ward No:14 (5-Works) Package No. DZ 2017-18-(04), BBMP, Bangalore.
Name of Road	: Improvements and Asphalting to main roads od Siddeshwara layout in Bagalagunte in ward no.14.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.02.2019	10.02.2019	8.162	365.8	16.26
2	03.02.2019	10.02.2019	8.145	338.2	15.03
3	03.02.2019	10.02.2019	8.192	341.9	15.20

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Job No.: CQCE/BBMP/MSV/W.No.14/2018-19 Date: 10.02.2019

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Contractor : **Sri. M S Venkatesh,** Contractor, Bangalore.

Name of the work : Improvements & asphalting to main and cross roads at Soap Factory Layout, M.S.Ramaiah Layout, Siddeshwara Layout, Bhuvaneshwari Layout & Vishweshwaraiah Layout in Bagalagunte in Ward No:14 (5-Works) Package No. DZ 2017-18-(04), BBMP, Bangalore.

Name of Road : Improvements and Asphalting to main roads od Siddeshwara layout in Bagalagunte in ward no.14.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.02.2019	10.02.2019	8.125	362.5	16.11
2	03.02.2019	10.02.2019	8.146	348.9	15.51
3	03.02.2019	10.02.2019	8.172	353.8	15.72

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Job No.: CQCE/BBMP/MSV/W.No.14/2018-19 Date: 13.01.2019

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Contractor	:	**Sri. M S Venkatesh,** Contractor, Bangalore.
Name of Work	:	Improvements & asphalting to main and cross roads at Soap Factory Layout, M.S.Ramaiah Layout, Siddeshwara Layout, Bhuvaneshwari Layout & Vishweshwaraiah Layout in Bagalagunte in Ward No:14 (5-Works) Package No. DZ 2017-18-(04) , BBMP, Bangalore.
Name of Road	:	Improvements and Asphalting to main roads od Siddeshwara layout in Bagalagunte in ward no.14.
No.of Sample Tested	:	03
Date of Testing	:	13.01.2019
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	83.00	0.378	2319.44	1.66	0.960	33.50	17.06	18.43	17.69	22.11
2	50.00	85.00	0.391	2342.76	1.70	0.960	32.90	16.76	18.10	17.37	21.72
3	50.00	88.00	0.411	2378.64	1.76	0.960	34.20	17.42	18.81	18.06	22.57

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ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
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CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
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ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/MSV/W.No.14/2018-19 Date: 17.01.2019

KERB STONE (CORE) TEST REPORT

Client	:	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	:	**Sri. M S Venkatesh,** Contractor, Bangalore.
Name of Work	:	Improvements & asphalting to main and cross roads at Soap Factory Layout, M.S.Ramaiah Layout, Siddeshwara Layout, Bhuvaneshwari Layout & Vishweshwaraiah Layout in Bagalagunte in Ward No:14 (5-Works) Package No. DZ 2017-18 (04), BBMP, Bangalore.
Name of Road	:	Improvements and Asphalting to main roads od Siddeshwara layout in Bagalagunte in ward no.14.
No.of Sample Tested	:	03
Date of Testing	:	17.01.2019
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	72.00	0.327	2313.05	1.44	0.960	26.20	13.34	14.41	13.83	17.29
2	50.00	76.00	0.348	2332.04	1.52	0.960	27.10	13.80	14.91	14.31	17.89
3	50.00	78.00	0.364	2376.71	1.56	0.960	27.90	14.21	15.35	14.73	18.42

Note:

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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 30 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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JobNo: CQCE/BBMP/MSV/W.No.14/2018-19 Date : 27.01.2019

GRADATION FOR GSB (Close Graded)
IS : 2720 (Part - 4)

Agency : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Client : **Sri. M S Venkatesh,** Contractor, Bangalore.
Name of work : Improvements & asphalting to main and cross roads at Soap Factory Layout, M.S.Ramaiah Layout, Siddeshwara Layout, Bhuvaneshwari Layout & Vishweshwaraiah Layout in Bagalagunte in Ward No:14 (5-Works) Package No. DZ 2017-18-(04), BBMP,
Name of Road : Improvements and Asphalting to main roads od Siddeshwara layout in Bagalagunte in ward no.14.

Date of Testing : 27.01.2019

Oven Dry Wt (gm) : 13729

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specified Limits
53	-	-	-	100	100
26.5	1756	1756	12.79	87.21	70-100
9.5	2352	4108	29.92	70.08	50-80
4.75	2265	6373	46.42	53.58	40-65
2.36	1956	8329	60.67	39.33	30-50
0.425	2326	10655	77.61	22.39	15-25
0.075	2285	12940	94.25	5.75	3-10
PAN	789				
Total	13729				

TABLE – 2: Tests on filler screen materials (As per Table : 400-13)

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit, %	24.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: Satisfies MORTH Specifications as per Table 400-2, Grading II

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Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
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Job No.: CQCE/BBMP/MSV/W.No.14/2018-19 Date : 29.01.2019

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **Sri. M S Venkatesh,** Contractor, Bangalore.

Name of Work : Improvements & asphalting to main and cross roads at Soap Factory Layout, M.S.Ramaiah Layout, Siddeshwara Layout, Bhuvaneshwari Layout & Vishweshwaraiah Layout in Bagalagunte in Ward No:14 (5-Works) Package No. DZ 2017-18-(04), BBMP, Bangalore.

Name of Road : Improvements and Asphalting to main roads od Siddeshwara layout in Bagalagunte in ward no.14.

Date of Testing : 29.01.2019

Material Type : Wet Mix Macadam

Oven Dry Wt 10500

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	326	326	3.1	96.9	95-100
22.4	3365	3691	35.2	64.8	60-80
11.2	1586	5277	50.3	49.7	40-60
4.75	2269	7546	71.9	28.1	25-40
2.36	1126	8672	82.6	17.4	15-30
0.600	765	9437	89.9	10.1	8-22
0.075	845	10282	97.9	2.1	0-8

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